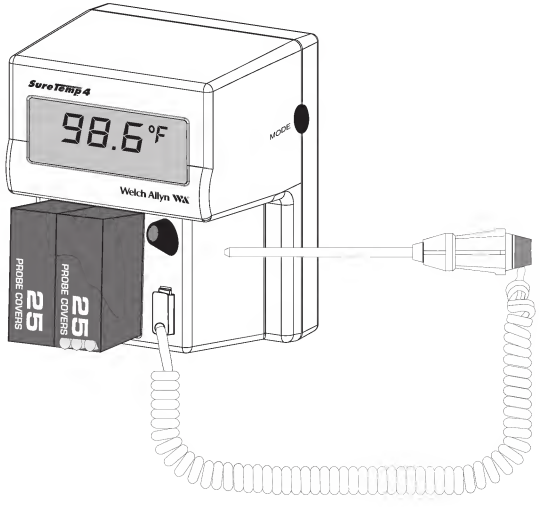

Welch Allyn®

767 SureTemp 4™ Thermometer System

Directions For Use

Welch Allyn®
Diatek Instruments

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U.S. and Foreign patents pending.

Thank you for purchasing the Welch Allyn 767 SureTemp 4™ thermometer. The operating and maintenance instructions found in this manual should be followed to ensure years of accurate and reliable service. Please read these instructions thoroughly before using your 767 SureTemp 4™ thermometer.

Technical service manuals may be ordered by contacting Diatek Customer Service at (800) 854-2904.

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INTRODUCTION

The Welch Allyn 767 SureTemp 4™ is a wall mounted thermistor thermometer to be used for measuring patient temperatures ranging from 84 °F to 108 °F (28.9 °C to 42.2 °C). Oral and rectal probes utilize single-use disposable probe covers which limit cross-contamination. Oral and rectal temperatures are taken using Normal or Monitor operating modes. Axillary temperatures are taken with an oral probe with the unit operating in the Monitor mode. In the **Normal** mode, the thermometer's microprocessor "predicts" body temperature in about 4 seconds for oral temperatures and in about 15 seconds for rectal temperatures. The **Monitor** mode continuously displays the temperature of the probe which will reflect the patient's actual temperature in about 3 minutes and will continue for as long as the probe remains in place.

SAFETY & WARNINGS

⚠ CAUTION: DISCONNECT THE SYSTEM FROM THE MAINS SUPPLY BEFORE CONNECTING THE 767 SURETEMP 4 THERMOMETER.

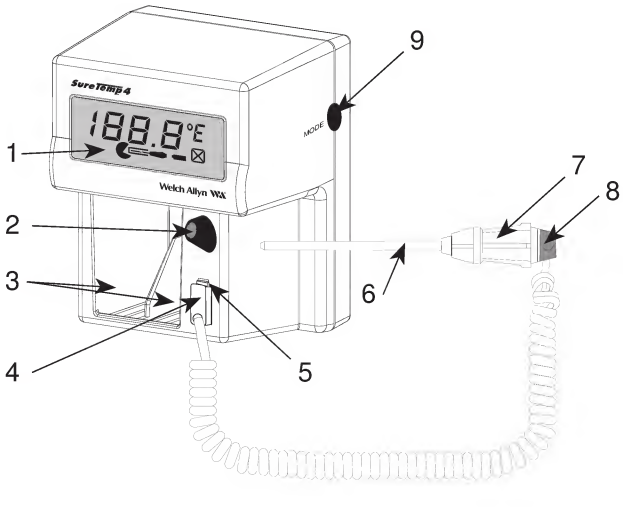
⚠ USE THE 767 SURETEMP 4 WITH WELCH ALLYN 3.5V 767 SERIES WALL TRANSFORMER ONLY.

⚠ DO NOT USE IN THE PRESENCE OF FLAMMABLE ANESTHETICS.

Caution: Federal (USA) law restricts this device to sale by or on the order of a physician.

In order to obtain accurate and reliable temperature-taking results and ensure patient safety, it is important that this booklet be read thoroughly prior to using the instrument. If you have any technical or clinical questions concerning the thermometer's use and/or care, please contact our Customer Service Department at (800) 854-2904.

- Single-use disposable probe covers, available from Welch Allyn or Diatek, will limit patient cross-contamination. The use of any other probe cover or the failure to use a probe cover may produce temperature errors and will invalidate the instrument's warranty.
- Oral probes (blue ejection button) are to be used for taking oral and axillary temperatures only. Rectal probes (red ejection button) are to be used for taking rectal temperatures only. The use of the wrong probe will produce temperature errors.
- The thermometer case is not waterproof; do not drip fluids onto it.
- Do not use this instrument for any purpose other than that specified in this booklet. Doing so will invalidate the instrument's warranty.
- Do not use the thermometer if you notice any signs of damage to the probe or instrument. Contact our Customer Service Department for immediate assistance.
- Do not ETO sterilize without using proper procedures described in the 767 SureTemp 4 technical manual.



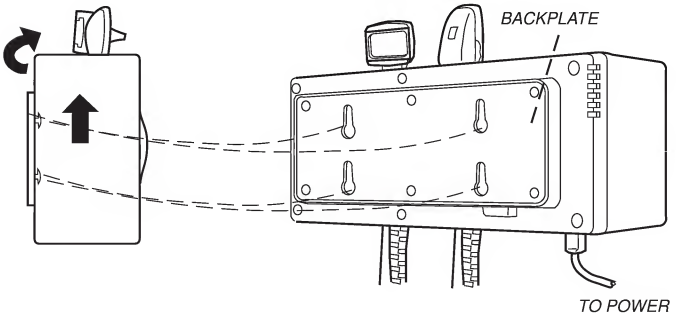
1. Display
2. Probe storage channel
3. Dual probe cover storage well
4. Probe connector receptacle
5. Probe connector receptacle latch
6. Probe
7. Probe handle collar
8. Ejection button
9. Mode selection button

Figure 1

MOUNTING INSTRUCTIONS

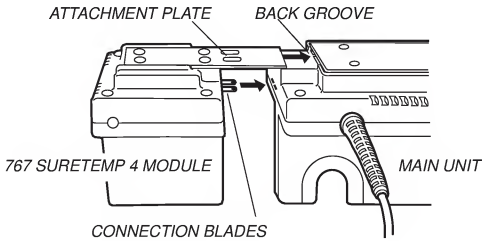
Existing 76710 or 76720 installation:

Unplug the 767 wall transformer from the wall outlet. Remove the 76710 or 76720 wall transformer from its mounting plate by pushing upwards on the unit and pulling it away from the wall mounting plate.



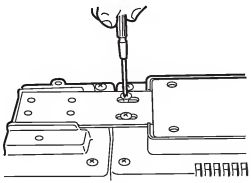
Fasten the 767 SureTemp 4 thermometer to the 76710 or 76720 wall transformer as follows:

1. Align the thermometer attachment plate within the groove on the back of the main unit. Line up the electrical contact blades with the corresponding blade openings on the main housings.



2. Slide the 767 SureTemp 4 thermometer into the main unit until the gap between the devices is closed.

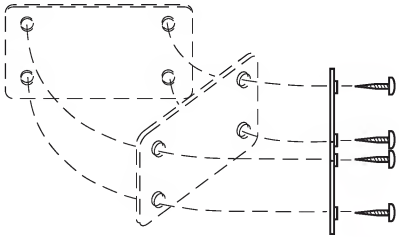
3. Secure the thermometer in place, as shown using the two Philips head screws provided.



4. Reinstall the assembled 767 wall transformer and thermometer by fitting the keyholes in the wall transformer backplate over the screw heads on the wall mounting plate and pushing downward on the assembly to secure it in place.

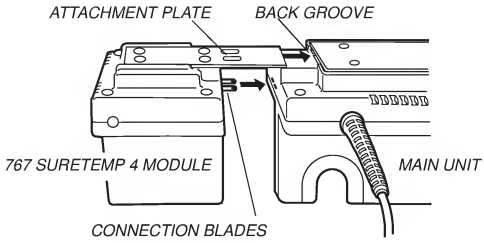
New 76710 or 76720 installation:

Follow the Mounting Instructions found in the 767 Diagnostic System owner's manual to attach the mounting plate to the wall.



Fasten the 767 SureTemp 4 thermometer to the 76710 or 76720 wall transformer as follows:

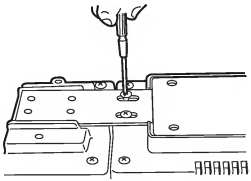
1. Align the thermometer attachment plate within the groove on the back of the main unit. Line up the electrical contact blades with the corresponding blade openings on the main housings.



2. Slide the 767 SureTemp 4 thermometer into the main unit until the gap between the devices is closed.

3. Secure the thermometer in place, as shown using the two Philips head screws provided.

4. Install the assembled 767 transformer and thermometer by fitting the keyholes in the wall transformer backplate over the screw heads on the wall mounting plate and pushing downward on the assembly to secure it in place.



SETUP

1. Install supplied Oral probe or optional Rectal probe by inserting the latching plug on the end of the coiled cord into plug receptacle on the unit. The plug snaps into place and cannot be removed without depressing the latch. (Figure 1).
2. Insert probe shaft completely into probe storage channel.
3. Turn on the 767 Wall Transformer.
4. CHr (blinks) and —— (steady) are displayed when an **oral probe** is installed. When displayed, the thermometer is characterizing the probe. The display will clear when complete. This process will take from 10 - 70 seconds.

   rEC is displayed when a **rectal probe** is installed.
5. Remove the probe from the storage channel.
6. Observe the LCD to see that all display segments appear followed by the display of the probe type OrL = Oral or rEC = Rectal. Replace probe in storage channel.
7. Insert two boxes of disposable probe covers (part number 05031) into the dual storage well.

CHANGING PROBES

- Depress the latch and unplug the probe connector from the thermometer.
- Remove the probe from the storage channel.
- Repeat steps 1 through 6 in the SETUP section.

FEATURES & DISPLAY INDICATORS

- Normal Mode: The thermometer takes oral temperatures in about 4 seconds and rectal temperatures in about 15 seconds. The unit will always operate in Normal mode unless the Mode button is depressed for more than 2 seconds (with probe removed from the channel) which changes it to Monitor Mode. Replacing the probe in the storage channel automatically resets the unit to Normal mode.
- Monitor Mode: Monitor mode is generally used for long term (continuous) temperature monitoring, taking axillary temperatures, or when difficult situations prevent accurate temperatures from being taken in the Normal mode.
- Optional LCD backlight, for easier reading of temperature display in darkened rooms.
- Oral Probe with 9' coiled cord and latching plug to prevent unintentional plug removal.
- Optional Rectal Probe with 9' coiled cord and latching plug.
- Elastomeric probe storage channel to protect the thermometer probe shaft.
- Mode Button: Recalls the last Normal mode temperature taken, converts temperatures from °F to °C and switches the unit to Monitor Mode.

Mode Table

Feature	Step 1	Step 2
Toggle Between °F or °C Setting	While temperature is displayed, with probe in or out of storage channel	Press Mode button. Release **within** 2 seconds
Monitor Mode	Remove probe from storage channel	Press Mode button for **more than** 2 seconds
Temperature Recall	Place probe in storage channel	Press and release mode button

Instrument Malfunction: If this icon is displayed, record error code shown on the display and contact the Diatek Customer Service Department.

Broken Probe: If flashing, probe has been damaged. Remove and reinstall probe. If error persists, then install a new probe.

Probe Position: Probe has broken contact with the tissue. Once proper contact has been achieved, the icon will be turned off but will reappear at the end of the temperature measurement. It is recommended that a new temperature be taken.

Displayed when an **oral probe** is installed. When displayed, the thermometer is characterizing the probe. Chr will blink while —— will remain on. Wait for the display to clear before taking a temperature.

Oral Probe: This icon is displayed to show that an oral probe has been selected.

Rectal Probe: This icon is displayed to show that a rectal probe has been selected.

Walking Segments: This will be displayed when the thermometer is in process of taking a temperature in the Normal mode.

Monitor Mode: Monitor mode is generally used for long term temperature monitoring, taking axillary temperatures, or when difficult situations prevent accurate temperatures from being taken in the Normal mode.

High Temperature: This icon is displayed if the patient's temperature is greater than 108.0°F (42.2°C).

Low Temperature: This icon is displayed if the patient's temperature is less than 84.0°F (28.9°C).

E 0 Error Codes: If an error code is displayed, refer to the troubleshooting section of your technical manual or contact the Diatek Customer Service Department.

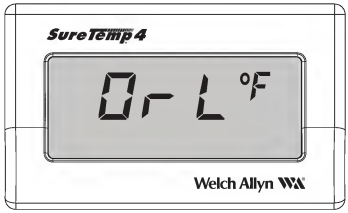
C 1.1 Will display if the oral probe characterization process exceeds 70 seconds. Thermometer will automatically restart the characterization process.

Display Test: All segments of the thermometer display will appear briefly when the probe is removed from the storage channel to ensure proper function.

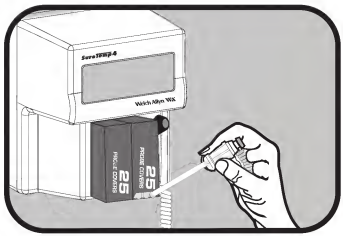
OPERATION

1. Select the temperature scale (Fahrenheit or Celsius) and temperature measurement mode (Normal or Monitor) using the Mode button (see Mode table in **Features and Display Indicators** Section). Most temperatures are taken in the Normal mode. The thermometer automatically resets to the Normal mode after the probe is returned to the storage channel.

2. Withdraw the probe from the storage channel and observe a thermometer display test followed by a display of the probe type OrL = Oral, rEC = Rectal.



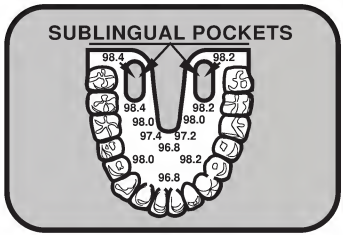
3. Load a probe cover onto probe. Hold probe handle collar with thumb and forefinger, being careful not to hold or press "ejection" button. Press collar down firmly to secure the cover.



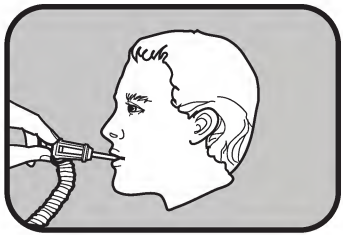
TAKING ORAL TEMPERATURES - BLUE CAPPED PROBE

The ability of the 767 SureTemp 4™ to take an accurate temperature in 4 seconds requires correct user technique.

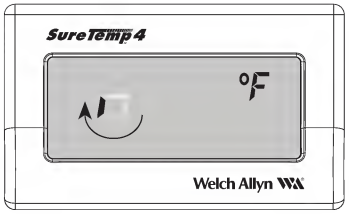
1. Insert the probe tip gently into the patient's slightly opened mouth. Quickly slide the probe under the tongue on either side of the mouth to reach the sublingual pocket. Have the patient close his/her lips around the probe.



2. Hold the probe in place, keeping the tip in contact with tissue during the entire temperature measurement process. **Holding the probe still will ensure a fast and accurate measurement.**

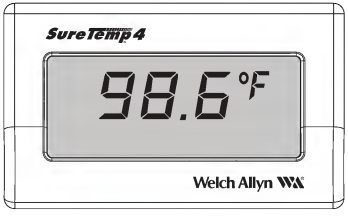


3. During the temperature measurement cycle, "walking" segments will appear on the display indicating measurement is in process.



4. When the final temperature has been reached, a tone will sound and the patient's temperature will be displayed.

5. After the temperature measurement is complete, remove the probe from the patient, then eject the probe cover by firmly pressing the ejection button on the probe.



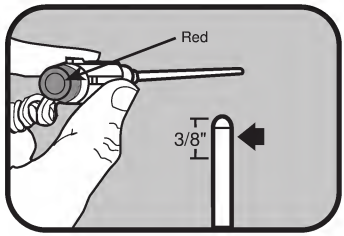
6. Insert the probe into the storage channel to clear the display, in preparation for another temperature.

NOTE: When using the Monitor mode, allow the temperature readout to stabilize for 3 minutes.

TAKING RECTAL TEMPERATURES - RED CAPPED PROBE

1. Exchange the oral probe (blue ejection button) for the rectal probe (red ejection button) by removing the probe from the storage channel, unplugging the probe connector from the thermometer, and repeating steps 1 through 6 in the SETUP section.

2. Attach a probe cover in the same manner as in the oral procedure.

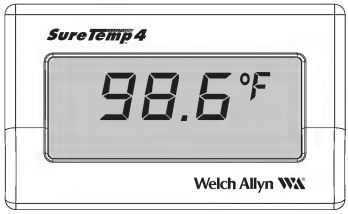


3. Separate buttocks with one hand. Using the other hand, gently insert the probe only 1 cm (3/8 of an inch) inside the rectal sphincter (less for infants and children). The use of lubricant is optional.

   WARNING: **Incorrect insertion can cause bowel perforation.**

   Tilt the probe so the tip is touching tissue. Keep hand separating buttocks in place. Hold the probe in place during the entire temperature measurement process.

4. When the final temperature is reached, a tone will sound and the temperature will be displayed. Rectal temperature measurements will take about 15 seconds.



5. After the temperature measurement is complete, remove the probe from the patient, then eject the probe cover by firmly pressing the ejection button on the probe. (Figure 1).
6. Insert the probe into the storage channel to clear the display, in preparation for another temperature.

NOTE: When using the Monitor mode, allow the temperature readout to stabilize for 3 minutes.

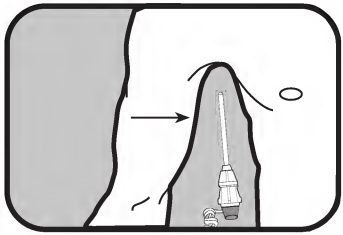
USING MONITOR MODE

Remove the probe from the storage channel and depress the Mode button for more than 2 seconds. The "M" icon will appear on the LCD indicating the unit is in Monitor mode. Load a disposable probe cover onto probe and the unit is ready to continuously display temperatures in Monitor mode. After the Monitor mode temperature has been taken, replacing the probe in the storage channel clears the display and resets the thermometer to Normal mode.

TAKING AXILLARY TEMPERATURES - BLUE CAPPED PROBE

Axillary temperatures should only be taken when the 767 SureTemp 4™ is in the Monitor mode with an oral probe.

1. Set the thermometer to the Monitor mode. Attach a probe cover onto the probe.



2. Dry the axilla prior to placing the probe. Place arm snugly at patient's side to reduce the cooling effects of evaporation and convection. Leave probe in place for approximately 3 minutes.
3. After the temperature measurement is complete, remove the probe from the patient, then eject the probe cover by firmly pressing the ejection button. (Figure 1).
4. Insert the probe into the storage channel to clear the display, in preparation for another temperature.

MAINTENANCE

Other than using a new probe cover for each temperature reading and keeping the instrument clean, there is no requirement for user maintenance. Refer to the 767 SureTemp4™ Technical Service Manual for detailed information on sterilization and calibration verification.

CLEANING & STERILIZATION

The 767 SureTemp 4™ housings may be cleaned with a cloth dampened with alcohol, warm water, or a nonstaining disinfectant such as Sporicidin® Spray and Towelettes or MetriSpray™. Care should be taken not to scratch the LCD faceplate. Low temperature Ethylene Oxide (ETO) sterilization of Oral or Rectal probes is to be used only when absolutely necessary. The procedure for ETO sterilization is described in the 767 SureTemp 4 Technical Service Manual and is available from Customer Service.

SPECIFICATIONS

- Range: 84.0°F - 108.0°F (28.9°C - 42.2°C).
- Calibration Accuracy: ±0.2°F (±0.1°C).
- Dimensions: length 5.1 inches; width 4.1 inches; height 4.0 inches; weight 1.0 lb.

CERTIFIED TO CAN/CSA STD C22.2 NO. 125 RISK CLASS 2

CONFORMS TO UL STD 544

CUSTOMER SERVICE

For customer service, technical or clinical support, please contact Diatek at (800) 854-2904 from 7:00 AM to 5:00 PM Pacific Time.

Sporicidin is a registered trademark of Sporicidin International (800) 424-3733. MetriSpray is a trademark of Metrex Research Corporation (800) 841-1428.

LIMITED WARRANTY

3-YEAR LIMITED WARRANTY ON NEW INSTRUMENTS: Instrumentation purchased new from Diatek Instruments, Inc. (Diatek) is warranted to be free from original defects in material and workmanship under normal use and service for a period of three years from the date of first shipment from Diatek. This warranty shall be fulfilled by Diatek or its authorized representative repairing or replacing at Diatek's discretion, any such defect, free of charge for parts and labor.

Diatek should be notified via telephone of any defective product and the item should be immediately returned, securely packaged and postage prepaid to Diatek. Loss or damage in shipment shall be at purchaser's risk.

Diatek will not be responsible for loss associated with the use of any Diatek product that (1) has had the serial number defaced, (2) has been repaired by anyone other than an authorized Diatek Service Representative, (3) has been altered, or (4) has been used in a manner other than in accordance with instructions.

90 DAY LIMITED WARRANTY ON PROBES AND PROBE COVERS:
Diatek warrants probe covers and probes to meet Diatek's specifications for the Product at the time of purchase and to be free from original defects in material and workmanship under normal use and service for a period equal to 90 days from the date of first shipment of such Product to the customer by or on behalf of Distributor.

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ANY IMPLIED WARRANTY OR MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, OR OTHER WARRANTY OF QUALITY, WHETHER EXPRESSED OR IMPLIED. DIATEK WILL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

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